

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Yuri Goldstein et al.

SERIAL NO.: 10/685,615

GROUP ART UNIT:

FILED: October 16, 2003

EXAMINER:

FOR: Method, Apparatus and System
for Pilotless Frequency
Offset Compensation in Multi-
Point-to-Point Wireless Systems
With OFDM

ATT'Y DOCKET: PCTEL-022

Honorable Commissioner of Patents
and Trademarks
Washington, D.C. 20231

I hereby certify that this correspondence is being deposited on
this day with the United States Postal Service as first class
mail in an envelope addressed to : Commissioner of Patents and
Trademarks, Washington, D.C. 20231.

David P. Gordon

David P. Gordon
Reg. No. 29,996

Feb 17, 2004
Date

Sir:

SUBMITTAL OF
DOCUMENTS PURSUANT TO DUTY OF DISCLOSURE

Pursuant to applicant's duty of disclosure 37 CFR Section 1.56, enclosed is a completed form PTOL-1449 as well as copies of the cited documents which relate to the above-referenced patent application. Since this document submittal is being presented prior to the first examination on the merits, no fee is due herewith.

The attached document is entitled "The 5-Up Protocol for United Multiservice Wireless Networks". This protocol is a proposed extension to existing 5Ghz wireless LAN (WLAN) standards that supports data transfer rates to over 54 Mb's and also allows a wide variety of lower-power lower-speed devices carrying diverse traffic types to coexist and interoperate within the same unified wireless network.

The listed documents are brought to the Examiner's attention because they are known to the applicant and/or the applicant's attorney and may be considered by the Examiner to be material to his/her examination. This listing should not be construed as representation that a search has been made or that no better art exists. No inference should be made that the documents are in fact material merely because they are referenced herein.

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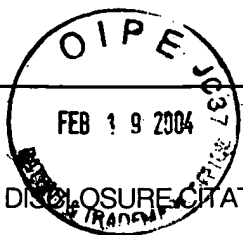
Moreover, no representation is made that the brief descriptions of the references herein necessarily describe the most material aspects of the references. Further, by this listing, the applicant is not making any admission regarding the relative dates of the invention and listed disclosures.

Respectfully submitted,

A handwritten signature in cursive script that reads "David P. Gordon".

David P. Gordon
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INFORMATION DISCLOSURE CITATION

PAGE 1 OF 1

Atty Docket No.
PCTEL-022

Serial No.
10/685,615

Applicant
Yurie Goldstein & Yuri Okunev

Filed
October 16, 2003

Group

US PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Name	Class	Sub- class	Filing date if approp.
	A						
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
	J						
	K						

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Country	Class	Sub- class	<u>Translation</u>	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		The 5-UP Protocol for Unified Multiservice Wireless Networks (11/2001)
		Author: Bill McFarland, Greg Chesson, Carl Temme and Teresa Meng

EXAMINER

DATE CONSIDERED